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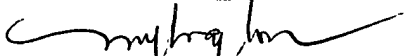
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Application Number | 10/628,906 |
| | | | Filing Date | July 28, 2003 |
| | | | First Named Inventor | Alan Marshall, et al. |
| | | | Group Art Unit | 2816 |
| | | | Examiner Name | not yet assigned TON |
| Sheet | 1 | of | Attorney Docket Number | 703567.4001 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|-----------------------|----------------------|------------------------|---|--|---|
| Examiner Initials | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publications of Cited Documents MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² | | | |
| MT | 1. | 4,926,070 | | Tanaka et al. | 05/15/1990 | |
| MT | 2. | 5,684,415 | | McManus | 11/04/1997 | |
| MT | 3. | 5,767,728 | | Michail et al | 06/16/1998 | |
| MT | 4. | 5,828,231 | | Bazargan | 10/27/1998 | |
| MT | 5. | 5,894,227 | | Acuff | 04/13/1999 | |
| MT | 6. | 6,118,303 | | Schmitt et al. | 09/12/2000 | |
| MT | 7. | US 6,208,171 | B1 | Kumagai et al. | 03/27/2001 | |
| MT | 8. | US 6,285,213 | B1 | Makino | 09/04/2001 | |
| MT | 9. | US 6,356,481 | B1 | Michelsoni et al. | 03/12/2002 | |
| | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------------|-------------------------|---------------------|---------------------------|--|--|---|----------------|
| Examiner Initials | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publications of Cited Documents MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Office ³ | Number ⁴ | Kind Code ⁵ | | | | |
| MT | 10. | JP | 59208926 | | Hitachi Ltd. | 11/27/1984 | | |
| MT | 11. | JP | 62136914 | | Citizen Watch Co. Ltd. | 06/19/1987 | | |
| MT | 12. | JP | 62178015 | | Nippon Telegraph and Telephone Corp. | 08/05/1987 | | |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials ¹ | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| MT | 13. | "108 Appendix B - FBGA Circuitry and Process Modeling - B.1.1 FPGA Routing Structures", Architecture and CAD for Deep-Submicron FBGA, (Betz, Rose, and Marquardt), Kluwer-Academic Publisher, 1999. | |
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| Examiner Signature |  | Date Considered | 2/17/05 |
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